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(21) International Application Number: PCT/EP99/07719 (22) International Filing Date: 10 September 1999 (10.09.99) (30) Priority Data: 9819769.2 10 September 1998 (10.09.98) GB (71) Applicant (for all designated States except US): ERASMUS UNIVERSITEIT ROTTERDAM [NL/NL]; Burgemeester Oudlaan 50, NL-3062 PA Rotterdam (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): UITTERLINDEN, Andreas, Gerardus [NL/NL]; Limes 67, NL-3176 TE Poortugaal (NL). VAN LEEUWEN, Johannes, Petrus, Thomas, Maria [NL/NL]; Maluslaan 23, NL-1185 KZ Amstelveen (NL). POLS, Huibert, Adriaan, Pieter [NL/NL]; Campanulahoef 21, NL-3355 BH Papendrecht (NL). (74) Agents: SHEARD, Andrew, Gregory et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB). ABSTRACT		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHOD FOR DETERMINING SUSCEPTIBILITY TO BONE DAMAGE BY SCREENING POLYMORPHISMS IN THE VITAMIN D RECEPTOR GENE (57) Abstract <p>The present invention relates to a prognostic method and means for determining susceptibility to bone damage in a subject, by screening for polymorphisms in the Vitamin D receptor or collagen Iα1 genes. In particular, the method for determining susceptibility to bone damage comprises analysing the genetic material of a subject to determine which of the B/b, A/a or T/t alleles of the restriction enzyme sites <i>BsmI</i>, <i>ApaI</i> and <i>TaqI</i> respectively are present. The method may further comprise determining which allele is present at the <i>SpI</i> restriction site of the collagen Iα1 gene. Specific combinations of the above alleles represent a haplotype which is associated with susceptibility to bone damage.</p>		